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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: "Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	9 set /251-300 cum	251.11	18	18
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	10 set /301-350 cum	311.13	20	20
10	GSB	SIEVE ANALYSIS	One Test		1	1

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M : 9972924526 | Tel : +91 80 23444801 | e : ...chan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-12-37** **Date: 30-11-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-01-12-37** **Date: 26-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-12-37**	**Date: 30-11-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."	
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.	
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	27-11-20	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	27-11-20	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-12-37** **Date: 30-11-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-01-12-37** **Date: 30-11-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-11-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	_

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-01-12-37** **Date: 30-11-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Date: 30-11-20

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-11-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-01-12-37** **Date: 30-11-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID	:	CP-2021-01-12-37
		Date: 14-12-20
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-12-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	12-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 23-12-20

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-20
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	19/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-01-12-37** **Date: 23-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-12-20
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	19/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	75.49	250.52	3.122	4475	240.3	53.7	49.9	62.4
3	Cover Slab-3	75.50	250.51	3.118	4476	240.5	53.7	50.0	62.5

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Note:

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 23/12/2020**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-20
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	149.21 X 149.03 X 149.85	22237	9.028	411.8	18.5	18.6
2	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	150.07 X 149.33 X 151.50	22410	8.671	413.2	18.4	
3	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	151.14 X 150.77 X 150.87	22788	8.956	426.4	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 13/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-20
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	151.06 X 150.75 X 151.74	22772	9.092	534.7	23.5	23.5
2	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	149.48 X 150.22 X 150.86	22454	8.260	515.9	23.0	
3	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	149.64 X 150.95 X 149.08	22589	8.487	540.5	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-12-37 **Date: 23/12/2020**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."

Agency : Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.

Customer's Reference : BBMP/EE/BTP/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-20

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	149.56 X 151.54 X 150.99	22663	9.028	426.7	18.8	18.6
2	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	151.17 X 151.04 X 151.77	22832	8.671	431.1	18.9	
3	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	151.01 X 149.03 X 151.04	22506	8.956	407.8	18.1	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 13/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-20
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	150.13 X 150.99 X 150.54	22669	9.092	522.5	23.0	23.1
2	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	149.93 X 150.31 X 150.42	22537	8.260	514.1	22.8	
3	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	151.66 X 149.07 X 149.48	22608	8.487	527.1	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-12-37 **Date: 23/12/2020**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."

Agency : Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.

Customer's Reference : BBMP/EE/BTP/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-12-20

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	149.22 X 150.69 X 150.27	22486	9.028	415.7	18.5	18.4
2	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	149.79 X 149.60 X 149.39	22409	8.671	406.7	18.2	
3	Drain Bottom Raft Concrete	M20	16/12/2020	23/12/2020	149.84 X 150.57 X 151.81	22561	8.956	416.9	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/IT/01

Date: 13/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Cross, Bhuvaneshwarinagara, II A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-20
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	150.01 X 149.41 X 149.08	22413	9.092	535.6	23.9	23.5
2	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	149.18 X 150.13 X 149.47	22395	8.260	511.7	22.8	
3	Drain Bottom Raft Concrete	M20	16/12/2020	13/01/2021	151.03 X 151.01 X 150.93	22807	8.487	541.3	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 26/12/2020**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.94 X 149.14 X 149.93	22660	9.028	411.3	18.1	18.5
2	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	149.42 X 150.04 X 151.30	22418	8.671	415.6	18.5	
3	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.66 X 150.48 X 150.34	22822	8.956	431.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	149.00 X 151.62 X 150.71	22592	9.092	519.6	23.0	23.0
2	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	150.33 X 149.26 X 151.66	22437	8.260	505.3	22.5	
3	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	149.15 X 150.23 X 151.76	22407	8.487	529.4	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	149.03 X 150.07 X 150.04	22364	9.028	421.5	18.8	18.5
2	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.61 X 151.45 X 151.01	22962	8.671	421.5	18.4	
3	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	149.18 X 151.07 X 151.29	22537	8.956	410.6	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, II A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	150.28 X 149.14 X 149.07	22413	9.092	537.8	24.0	23.3
2	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	150.40 X 149.47 X 149.70	22480	8.260	507.3	22.6	
3	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	150.81 X 150.43 X 151.02	22685	8.487	527.5	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Ilara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.93 X 149.94 X 149.20	22780	9.028	417.1	18.3	18.6
2	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	150.01 X 150.31 X 149.09	22548	8.671	415.1	18.4	
3	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.75 X 149.12 X 149.09	22629	8.956	429.0	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore. **Date: 16/01/2021**
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	151.52 X 151.85 X 149.94	23008	9.092	541.5	23.5	23.2
2	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	151.84 X 149.97 X 150.21	22772	8.260	510.7	22.4	
3	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	149.96 X 151.23 X 149.92	22678	8.487	532.7	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2020

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	151.59 X 149.29 X 151.42	22630	9.028	418.3	18.5	18.3
2	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	149.33 X 151.45 X 150.97	22616	8.671	408.1	18.0	
3	Drain Side Wall Concrete	M20	19/12/2020	26/12/2020	150.45 X 149.38 X 151.64	22474	8.956	412.0	18.3	

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Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 16/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	151.01 X 151.78 X 150.52	22920	9.092	545.1	23.8	23.0
2	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	151.54 X 150.96 X 149.40	22878	8.260	506.7	22.1	
3	Drain Side Wall Concrete	M20	19/12/2020	16/01/2021	150.50 X 151.92 X 149.11	22864	8.487	529.4	23.2	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-12-37 **Date: 26/12/2020**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."

Agency : Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.

Customer's Reference : BBMP/EE/BTP/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-12-20

Customer ID : Culvert Bottom slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom slab Concrete	M20	18/12/2020	25/12/2020	149.05 X 149.20 X 150.60	22237	9.028	410.2	18.4	18.6
2	Culvert Bottom slab Concrete	M20	18/12/2020	25/12/2020	150.59 X 149.74 X 150.78	22549	8.671	412.8	18.3	
3	Culvert Bottom slab Concrete	M20	18/12/2020	25/12/2020	149.56 X 149.62 X 151.24	22377	8.956	424.2	19.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-12-20
Customer ID	:	Culvert Bottom slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom slab Concrete	M20	18/12/2020	15/01/2021	149.93 X 149.46 X 150.66	22409	9.092	531.5	23.7	23.2
2	Culvert Bottom slab Concrete	M20	18/12/2020	15/01/2021	151.45 X 150.06 X 150.73	22727	8.260	506.1	22.3	
3	Culvert Bottom slab Concrete	M20	18/12/2020	15/01/2021	150.52 X 151.92 X 150.86	22867	8.487	538.4	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 28/12/2020**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-20
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	21/12/2020	28/12/2020	149.27 X 149.77 X 151.22	22357	9.028	421.3	18.8	18.8
2	Culvert Side Wall Concrete	M20	21/12/2020	28/12/2020	151.78 X 151.07 X 149.35	22930	8.671	434.5	19.0	
3	Culvert Side Wall Concrete	M20	21/12/2020	28/12/2020	149.86 X 151.37 X 150.13	22683	8.956	420.1	18.5	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-20
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	21/12/2020	18/01/2021	149.22 X 149.96 X 149.21	22377	9.092	530.5	23.7	23.3
2	Culvert Side Wall Concrete	M20	21/12/2020	18/01/2021	151.53 X 149.84 X 150.28	22704	8.260	507.0	22.3	
3	Culvert Side Wall Concrete	M20	21/12/2020	18/01/2021	149.39 X 151.92 X 149.11	22695	8.487	538.4	23.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/02/2021

Lab ID	:	**CP-2021-01-12-37**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 18/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/02/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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2	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 08/02/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/01/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2021	19/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	12/01/2021	19/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	12/01/2021	19/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-01-12-37 **Date: 19/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : "Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."

Agency : Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.

Customer's Reference : BBMP/EE/BTP/WO/143/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2021	19/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	12/01/2021	19/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	12/01/2021	19/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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2	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
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Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
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Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2021

Lab ID	:	CP-2021-01-12-37
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	12/01/2021	09/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 20/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	13/01/2021	20/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	13/01/2021	20/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	13/01/2021	20/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 10/02/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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2	Cement Concrete Pavement	M30	13/01/2021	10/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	13/01/2021	10/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

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Lab ID	:	**CP-2021-01-12-37** **Date: 20/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
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Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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Date: 20/01/2021

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Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	13/01/2021	20/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	13/01/2021	20/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	13/01/2021	20/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/02/2021

Lab ID	:	**CP-2021-01-12-37**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 05 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	13/01/2021	10/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	13/01/2021	10/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	13/01/2021	10/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-01-12-37** **Date: 22/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	15/01/2021	22/01/2021	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Cement Concrete Pavement	M30	15/01/2021	22/01/2021	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Cement Concrete Pavement	M30	15/01/2021	22/01/2021	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-01-12-37 **Date: 12/02/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, H A Farm Post, Bangalore 560024.
Customer's Reference	:	BBMP/EE/BTP/WO/143/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	15/01/2021	12/02/2021	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	23.5
2	Cement Concrete Pavement	M30	15/01/2021	12/02/2021	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	Cement Concrete Pavement	M30	15/01/2021	12/02/2021	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-2021-01-12-37	**Date: 04-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	"Improvements to Roads and Drains at Vidyasagar Govt School Back Side Roads in Ward No 06 Thanisandra."	
Agency	:	Sri.Muniraju B.M, No:04, Sri Hari Hara, Vasa Nilaya, 19th Coss, Bhuvaneshwarinagara, II A Farm Post, Bangalore 560024.	
Customer Reference	:	BBMP/EE/BTP/WO/143/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-01-21	
Type of Mix	:	GSB (Granular Sub Base)	
Date of Test	:	02-01-21	
Oven Dry Weight	:	10000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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